E-11

(BOOSTER) POWER STAGE 20 W.

Mono power stage specially indicated for small appliances. The maximum power is 32,6 W.R.M.S at 20 Ω. Its main characteristic is based on the high quantity of appliance thanks to its reduce size and its quality. It includes protection against short-circuits, polarity inversion and connection terminals.

TECHNICAL CHARACTERISTICS.

Voltage	12 V. D.C. From 9 up to 14 V.
Input Sensitivity	250 mV.
Output Impedance	4 - 8 Ω.
Frequencies Margin	30 - 18000 Hz.
20 W. Distorsion	1 %
R.M.S Power	20 W.
Musical Power	32,6 W.
Sizes	68 x 68 x 40 mm.

OPERATING.

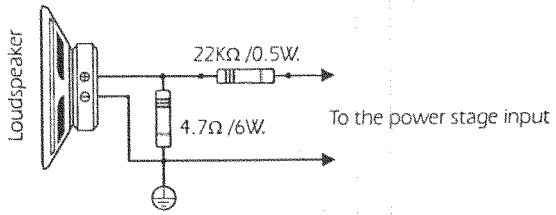
MODULE'S SUPPLYING. The E-11 module had to be supplied by correctly stabilised 12 VDC power supply (from 9 up to 14 VDC), for this reason we suggest you to not use simple supply equipment neither rectifiers, which could negatively affect the module's operating , but a power supply.
We recommended you the FE-11 power supply which has been developed to perfectly answer to the circuit needs or a battery for mobile appliances. Install a fuse and a switch as it is required by teh "CE" regulation to offer a correct protection of the module as well as for your own safety. According to the drawing, you have to connect the positive, the negative and zero of the power supply to the corresponding terminals indicated in the schedule. The distance between power supply and module have to be as short as possible (15 cm as maximum.) Verify that the assembly has been correctly done.
To obtain a correct module's operating we suggest you to protect is against mains interference, to do that you have to place between the mains and the transformer a filter (See the paragraph "Installation of the Filter").

OPERATING. See the paragraph "General wiring map". When the connections of the power supply are made, install a loudspeaker to the indicated terminal. The loudspeaker must to be 15 W (as minimum power). Nevertheless, we suggest you to place a loudspeaker with 25 W. (as minimum power). If you use quality loudspeaker, you could highly appreciate the assembly.

INPUT SIGNAL. The input signal could be supplied by auxiliary devices as mixing desk, etc... but this input could not exceed 700 mV. Connect input terminals indicated in the schedule, and the distance between module (power stage) and its signal supply, has to be as short as possible. Use shielded cable for this assembly.

VOLUME CONTROL. To adjust the input signal level of the power stage, modifying the volume, you have to install a 47 Ω. logarithmic potentiometer. Use shielded cable for the installation (see the paragraph "General wiring map".

INSTALLATION & CONSIDERATIONS. Altought this connection is not the best connection mode, you have to forget this one each time it will be possible. If you have to connect the module input with the output loudspeaker, install between the volume potentiometer and the loudspeaker following resistors according to the drawing hereafter..



To install the power stage, we suggest you to fit it into a metallic box. This last has to be enough stronger to include module and its power supply and well ventilated. Indeed, during its operating the module will heat. Connect the negative terminal of the power stage to the ground of the box chassis.

POWER STAGES

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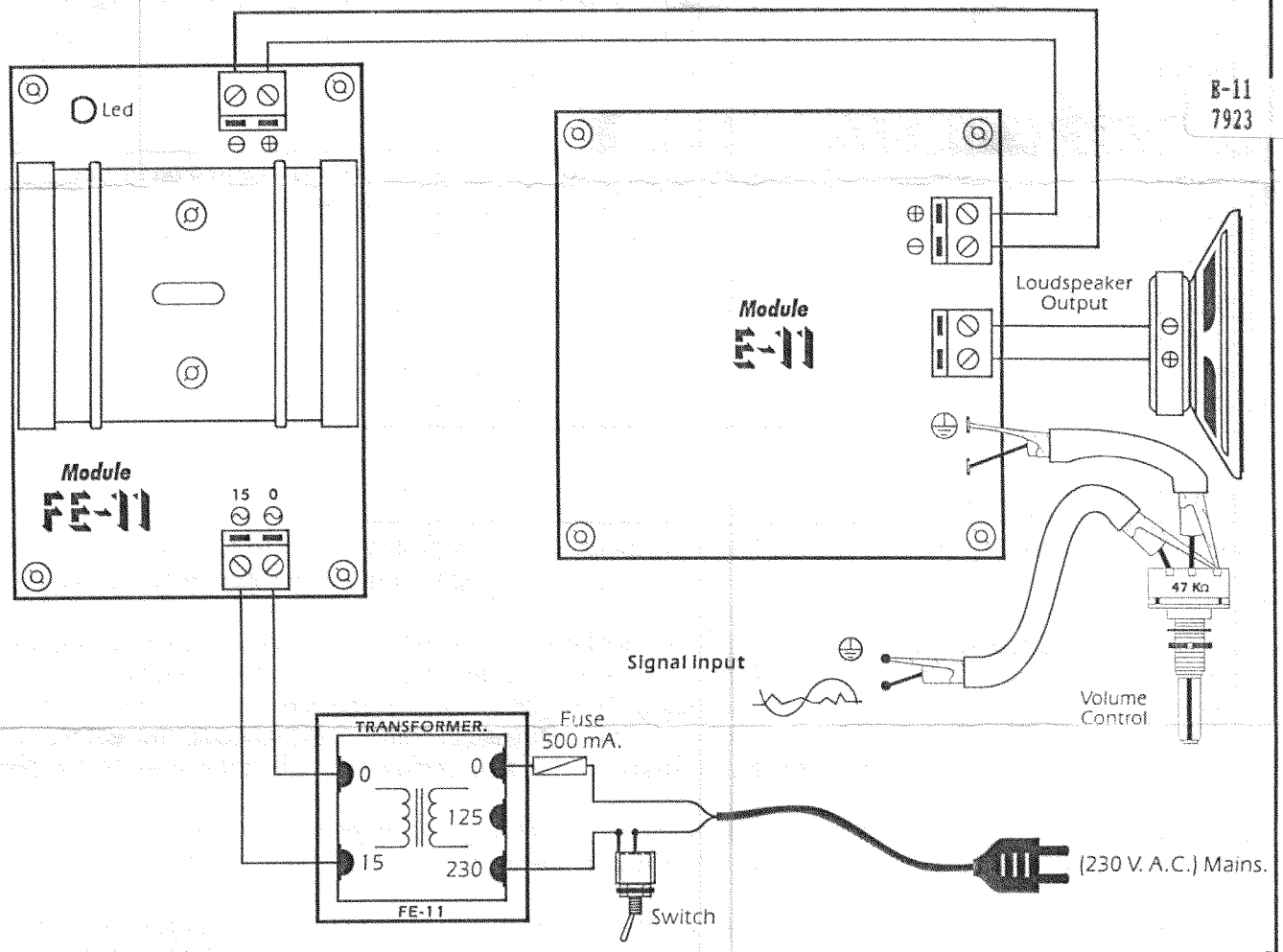
GENERAL WIRING MAP.



INSTALL OF THE FILTER.